



PICASSO LIGHTING INDUSTRIES, LLC
46 Sellers Street, Kearny, NJ 07032
201.246.8188

Indoor Distribution Test Report

Picasso Lighting Industries, LLC

46 Sellers St.
Kearny, NJ 07032

Photopia Photometric Analysis & Optical Design

Catalog Number

VAR-RF-4-D3-30-80-OW-W

VARIO Linear - White Housing - Direct - Opal Lens

Test Number

IES-P00272

Test Date

Mon Dec 09 13:10:34 2019

The results contained in this report pertain only to the tested sample.
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VAR-RF-4-D3-30-80-OW-W
VARIO Linear - White Housing - Direct - Opal Lens
LED (3000K 80+ CRI)



Image may differ slightly from actual unit.

Summary of Results

Output:

| | |
|--------------------|-------------|
| Watts: | 15.25 W |
| Lumens: | 1,410.71 lm |
| Efficiency: | N/A |
| Efficacy: | 92.11 lm/W |

Spacing Criterion

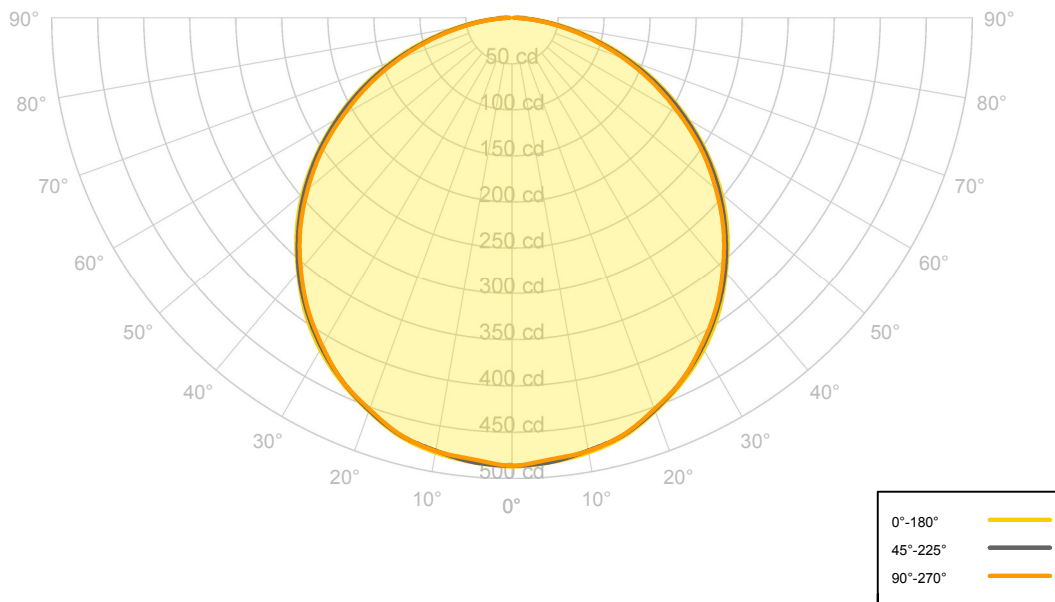
| | |
|----------------------------------|------|
| Two luminaires, plane 0° | 1.26 |
| Two luminaires, plane 90° | 1.25 |
| Four luminaires | 1.38 |

Full Beam Angle

| | |
|-------------------|---------|
| 0° - 180° | 114.05° |
| 90° - 270° | 112.11° |

Calculated results may not be representative of field performance.
Ballast factors have not been applied.

Candela Polar Plot



Zonal Lumen Summary

| Zone | Lumens | % Fixture | Zone | Lumens | % Fixture |
|-----------|----------|-----------|-------------|----------|-----------|
| 0° - 10° | 55.26 | 3.92% | 90° - 100° | 0.99 | 0.07% |
| 10° - 20° | 131.88 | 9.35% | 100° - 110° | 0.00 | 0.00% |
| 20° - 30° | 200.52 | 14.21% | 100° - 120° | 0.00 | 0.00% |
| 30° - 40° | 242.45 | 17.19% | 120° - 130° | 0.00 | 0.00% |
| 40° - 50° | 252.36 | 17.89% | 130° - 140° | 0.00 | 0.00% |
| 50° - 60° | 228.14 | 16.17% | 140° - 150° | 0.00 | 0.00% |
| 60° - 70° | 173.29 | 12.28% | 150° - 160° | 0.00 | 0.00% |
| 70° - 80° | 98.24 | 6.96% | 160° - 170° | 0.00 | 0.00% |
| 80° - 90° | 28.57 | 2.03% | 170° - 180° | 0.00 | 0.00% |
| 0° - 90° | 1,410.71 | 100.00% | 0° - 180° | 1,410.71 | 100.00% |



Candela Distribution

| | 0.00° | 22.50° | 45.00° | 67.50° | 90.00° |
|--------|--------|--------|--------|--------|--------|
| 0.00° | 487.02 | 487.02 | 487.02 | 487.02 | 487.02 |
| 5.00° | 484.27 | 485.65 | 484.78 | 485.52 | 481.79 |
| 10.00° | 479.10 | 478.57 | 477.65 | 479.95 | 478.08 |
| 15.00° | 470.27 | 470.00 | 469.40 | 466.90 | 468.96 |
| 20.00° | 454.68 | 454.75 | 453.85 | 453.97 | 452.67 |
| 25.00° | 437.23 | 438.21 | 435.68 | 436.31 | 435.72 |
| 30.00° | 416.64 | 416.45 | 413.77 | 413.57 | 411.86 |
| 35.00° | 391.56 | 390.14 | 388.58 | 388.07 | 386.40 |
| 40.00° | 361.39 | 361.33 | 360.30 | 357.89 | 356.82 |
| 45.00° | 331.04 | 331.13 | 328.22 | 326.91 | 325.16 |
| 50.00° | 297.04 | 295.99 | 294.05 | 291.20 | 289.43 |
| 55.00° | 259.47 | 259.39 | 256.92 | 252.81 | 252.18 |
| 60.00° | 220.10 | 220.68 | 217.32 | 213.45 | 211.03 |
| 65.00° | 180.46 | 179.16 | 176.48 | 172.45 | 170.59 |
| 70.00° | 138.35 | 136.93 | 133.70 | 130.54 | 129.58 |
| 75.00° | 96.59 | 95.24 | 92.08 | 89.67 | 89.15 |
| 80.00° | 59.10 | 57.10 | 54.45 | 52.74 | 51.77 |
| 85.00° | 27.12 | 25.41 | 22.98 | 21.13 | 20.75 |
| 90.00° | 7.13 | 4.77 | 2.99 | 2.14 | 1.99 |

Average Luminaire Luminance [cd/m²]

| | 0.00° | 45.00° | 90.00° |
|--------|-------|--------|--------|
| 0.00° | 3,662 | 3,662 | 3,662 |
| 45.00° | 3,214 | 1,900 | 1,656 |
| 55.00° | 2,994 | 1,534 | 1,294 |
| 65.00° | 2,666 | 1,124 | 910 |
| 75.00° | 2,070 | 649 | 512 |
| 85.00° | 1,120 | 188 | 133 |



Coefficients of Utilization – Zonal Cavity Method

Values are lumens delivered to the workplane.

| | | | | | | | | | | | | | | | | | | | |
|------------|-----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| RCR | pf_c | 20% | 20% | 20% | 20% | 20% | 20% | 20% | 20% | 20% | 20% | 20% | 20% | 20% | 20% | 20% | 20% | 20% | 20% |
| | pc_c | 80% | 80% | 80% | 80% | 70% | 70% | 70% | 70% | 50% | 50% | 50% | 30% | 30% | 30% | 10% | 10% | 10% | 0% |
| | pw | 70% | 50% | 30% | 10% | 70% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0% |
| | 0 | 1,680 | 1,680 | 1,680 | 1,680 | 1,641 | 1,641 | 1,641 | 1,641 | 1,568 | 1,568 | 1,568 | 1,501 | 1,501 | 1,501 | 1,440 | 1,440 | 1,440 | 1,411 |
| | 1 | 1,534 | 1,466 | 1,405 | 1,350 | 1,495 | 1,434 | 1,378 | 1,328 | 1,373 | 1,327 | 1,286 | 1,318 | 1,280 | 1,246 | 1,267 | 1,237 | 1,209 | 1,179 |
| | 2 | 1,394 | 1,277 | 1,180 | 1,099 | 1,357 | 1,250 | 1,161 | 1,085 | 1,199 | 1,124 | 1,060 | 1,153 | 1,090 | 1,035 | 1,110 | 1,058 | 1,012 | 981 |
| | 3 | 1,271 | 1,121 | 1,005 | 913 | 1,235 | 1,098 | 991 | 904 | 1,056 | 964 | 888 | 1,017 | 938 | 872 | 980 | 914 | 857 | 826 |
| | 4 | 1,163 | 993 | 868 | 773 | 1,131 | 974 | 858 | 768 | 938 | 837 | 757 | 905 | 817 | 746 | 874 | 799 | 736 | 705 |
| | 5 | 1,070 | 887 | 760 | 666 | 1,040 | 871 | 752 | 662 | 841 | 736 | 655 | 813 | 720 | 647 | 787 | 705 | 640 | 610 |
| | 6 | 988 | 799 | 673 | 582 | 961 | 786 | 666 | 579 | 760 | 653 | 574 | 736 | 641 | 568 | 714 | 629 | 563 | 534 |
| | 7 | 917 | 725 | 601 | 514 | 892 | 714 | 596 | 512 | 692 | 586 | 508 | 671 | 576 | 504 | 652 | 566 | 500 | 472 |
| | 8 | 854 | 662 | 542 | 459 | 832 | 652 | 537 | 457 | 634 | 529 | 455 | 616 | 521 | 452 | 599 | 513 | 449 | 422 |
| 9 | 798 | 608 | 492 | 414 | 778 | 600 | 489 | 412 | 584 | 482 | 410 | 568 | 475 | 408 | 554 | 468 | 406 | 380 | |
| 10 | 749 | 562 | 450 | 375 | 731 | 554 | 447 | 375 | 540 | 441 | 373 | 527 | 436 | 371 | 514 | 430 | 369 | 344 | |

Cone of Light

| Mtg Height | Light Level | 0°-180° Beam Diameter | 90°-270° Beam Diameter |
|------------|-------------|-----------------------|------------------------|
| 6 ft | 14 fc | 18 ft | 18 ft |
| 8 ft | 8 fc | 25 ft | 24 ft |
| 10 ft | 5 fc | 31 ft | 30 ft |
| 12 ft | 3 fc | 37 ft | 36 ft |
| 15 ft | 2 fc | 46 ft | 45 ft |